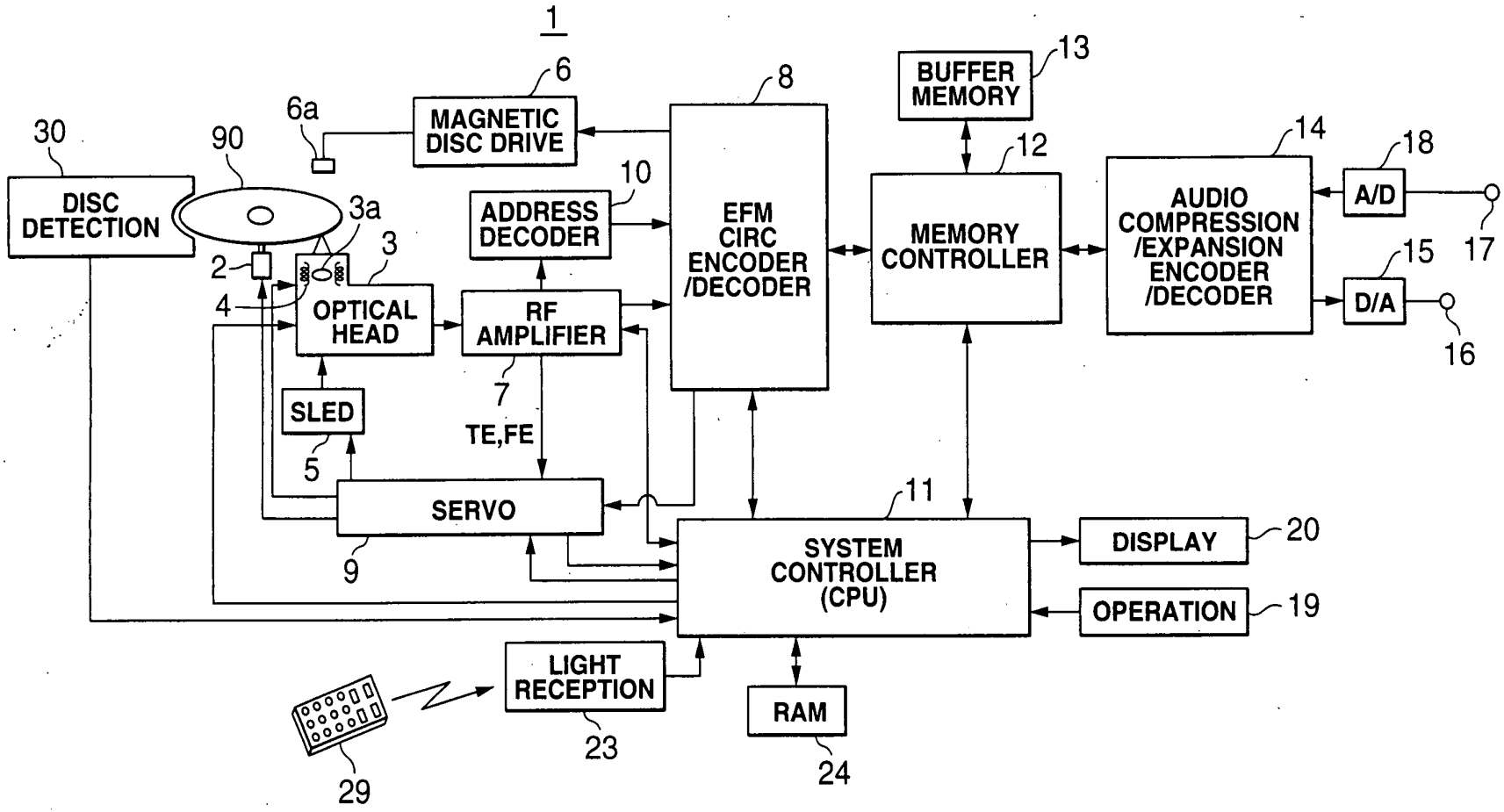


FIG.1

FIG.2A

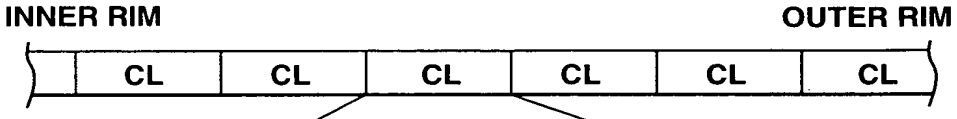


FIG.2B

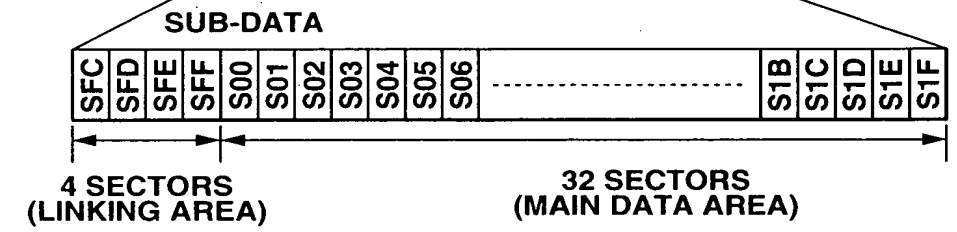


FIG.2C

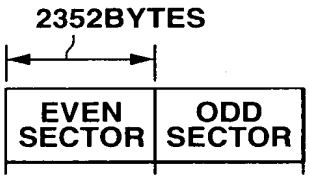


FIG.2D

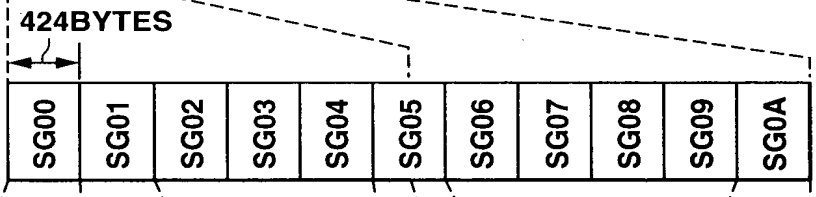
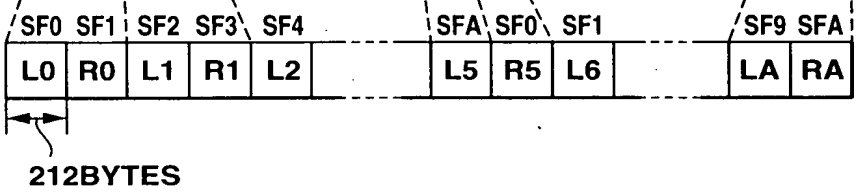
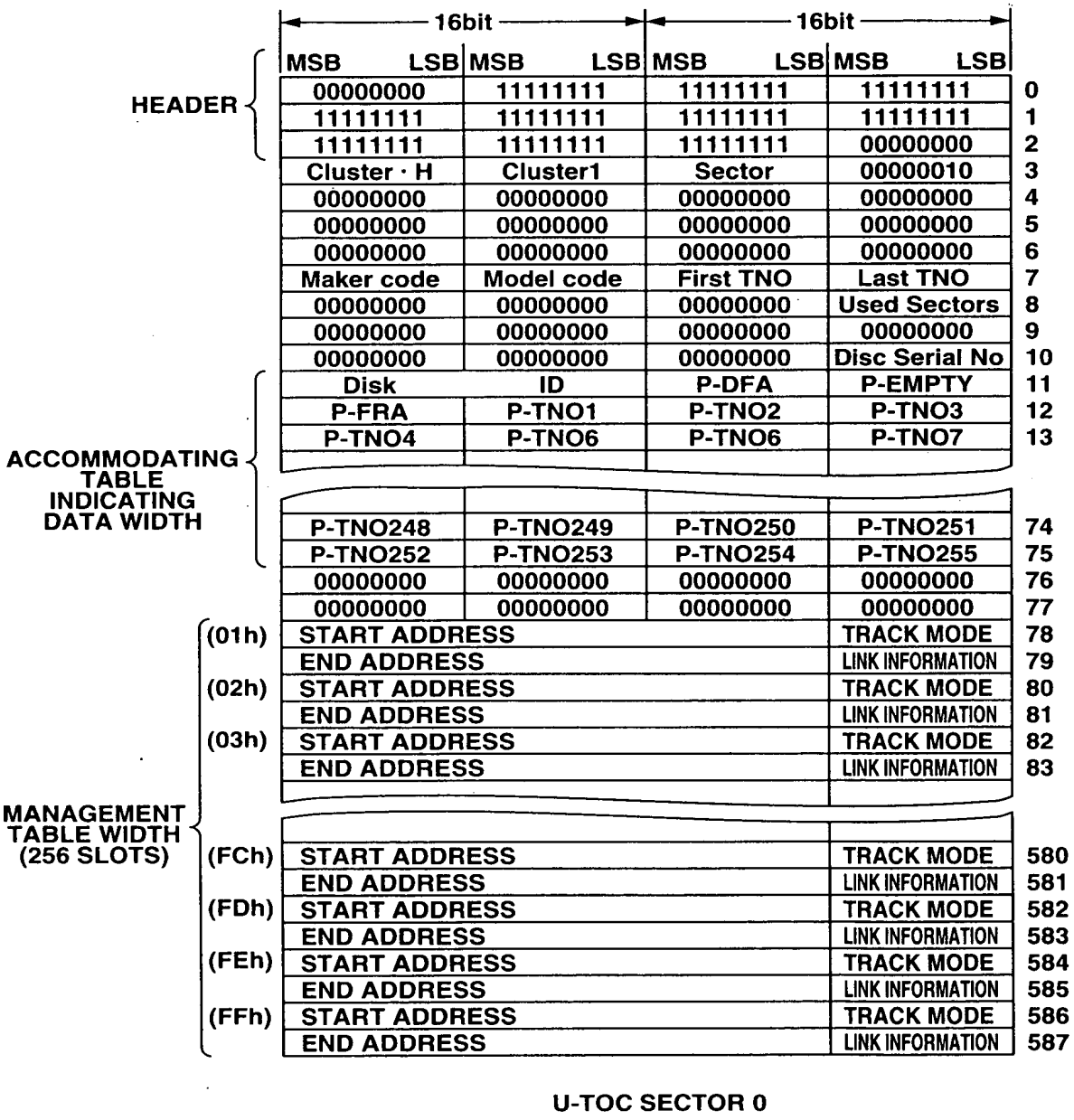


FIG.2E





U-TOC SECTOR 0

FIG.3

FIG.4A

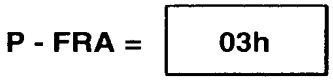


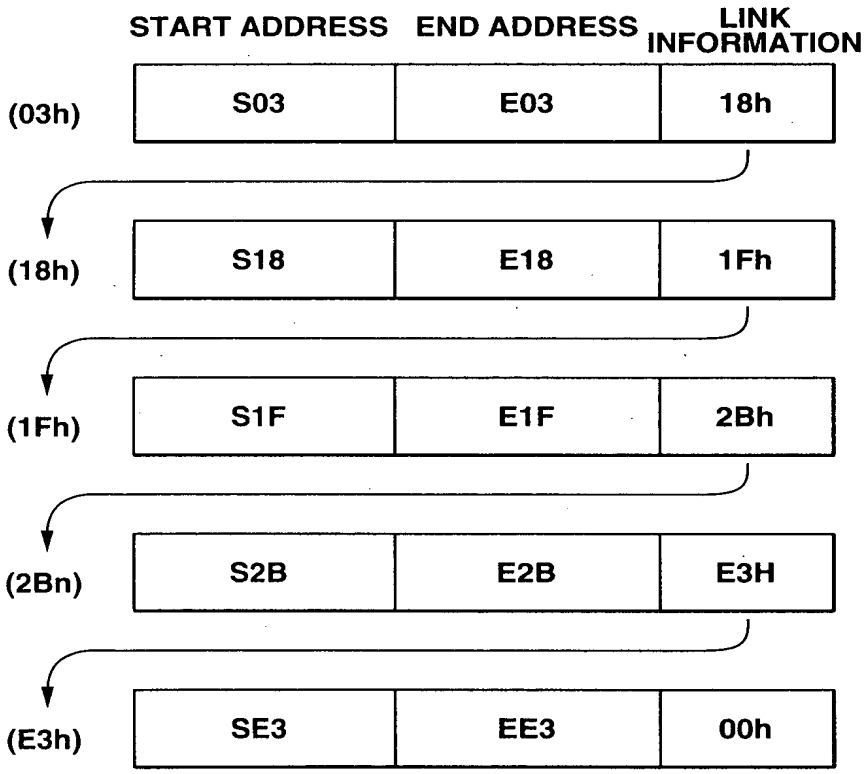
FIG.4B

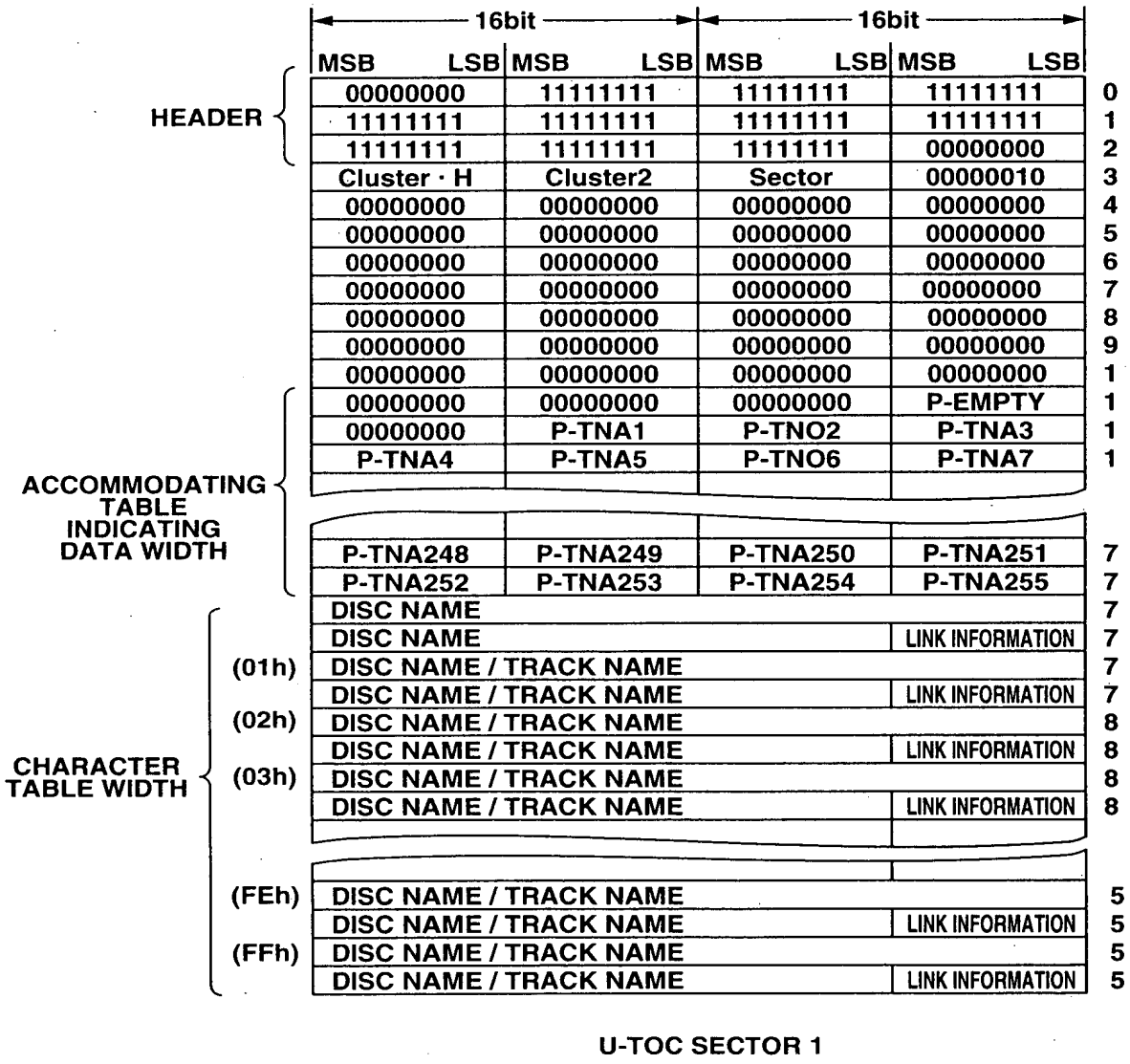
FIG.4C

FIG.4D

FIG.4E

FIG.4F





U-TOC SECTOR 1

FIG.5

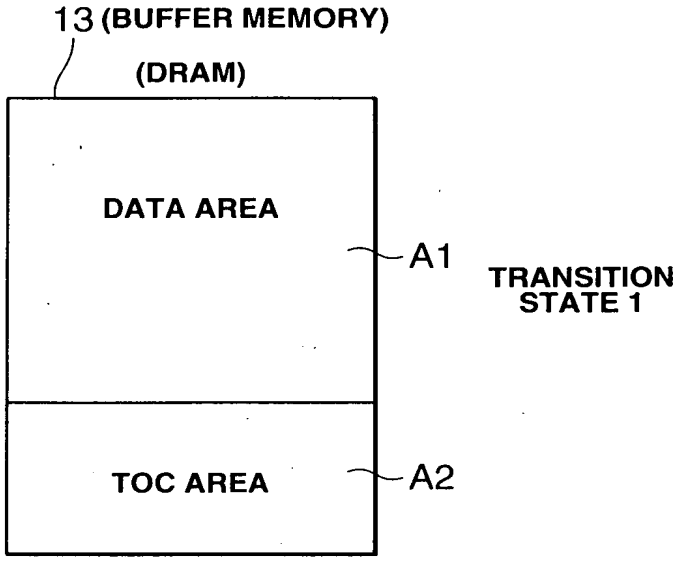

13 (BUFFER MEMORY)
(DRAM)
DATA AREA
A1
TRANSITION STATE 1
TOC AREA
A2

FIG.6A

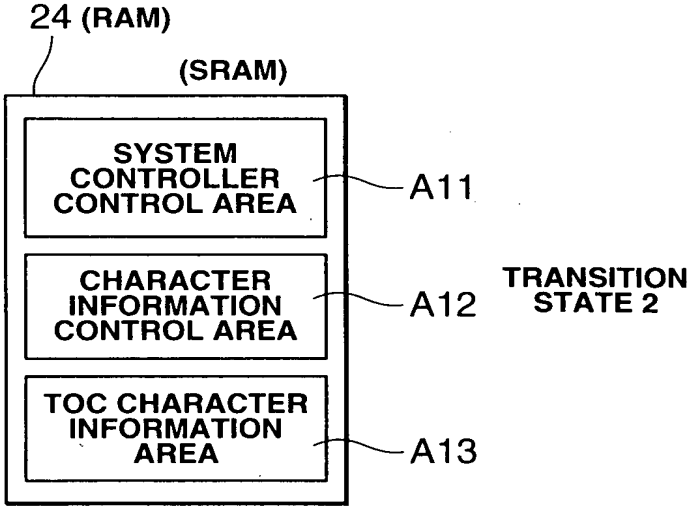

24 (RAM)
(SRAM)
SYSTEM CONTROLLER CONTROL AREA
A11
CHARACTER INFORMATION CONTROL AREA
A12
TRANSITION STATE 2
TOC CHARACTER INFORMATION AREA
A13

FIG.6B

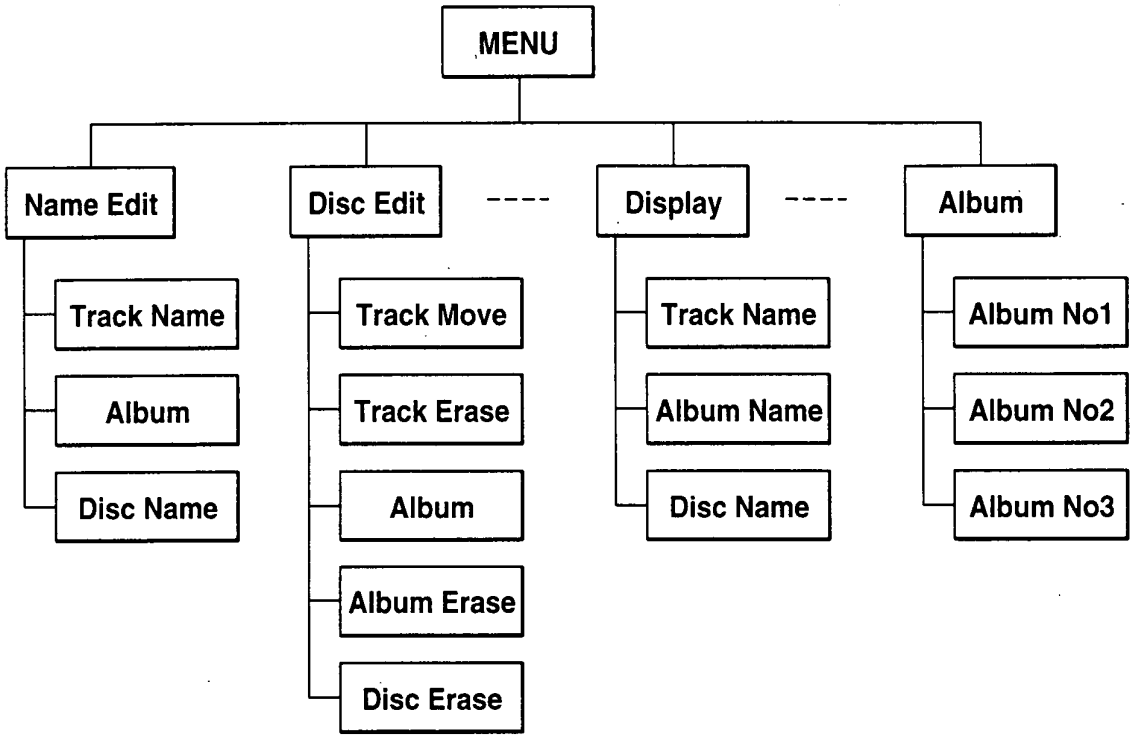

MENU
Name Edit
Disc Edit
Display
Album
Track Name
Album
Disc Name
Track Move
Track Erase
Album
Album Erase
Disc Erase
Track Name
Album Name
Disc Name
Album No1
Album No2
Album No3

FIG.7

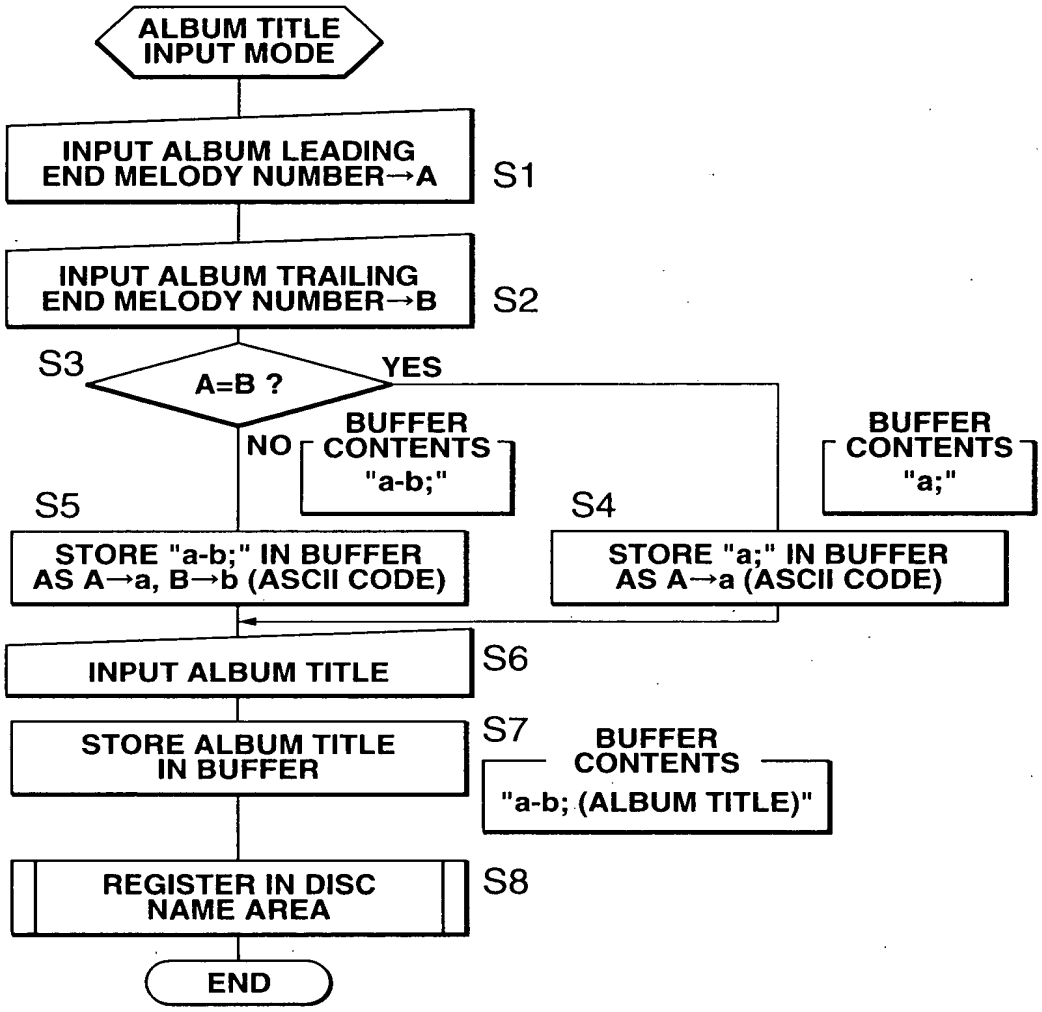

ALBUM TITLE INPUT MODE
INPUT ALBUM LEADING END MELODY NUMBER→A
S1
INPUT ALBUM TRAILING END MELODY NUMBER→B
S2
S3
A=B ?
YES
NO
BUFFER CONTENTS "a-b;"
BUFFER CONTENTS "a;"
S5
S4
STORE "a-b;" IN BUFFER AS A→a, B→b (ASCII CODE)
STORE "a;" IN BUFFER AS A→a (ASCII CODE)
INPUT ALBUM TITLE
S6
STORE ALBUM TITLE IN BUFFER
S7
BUFFER CONTENTS "a-b; (ALBUM TITLE)"
REGISTER IN DISC NAME AREA
S8
END

FIG.8

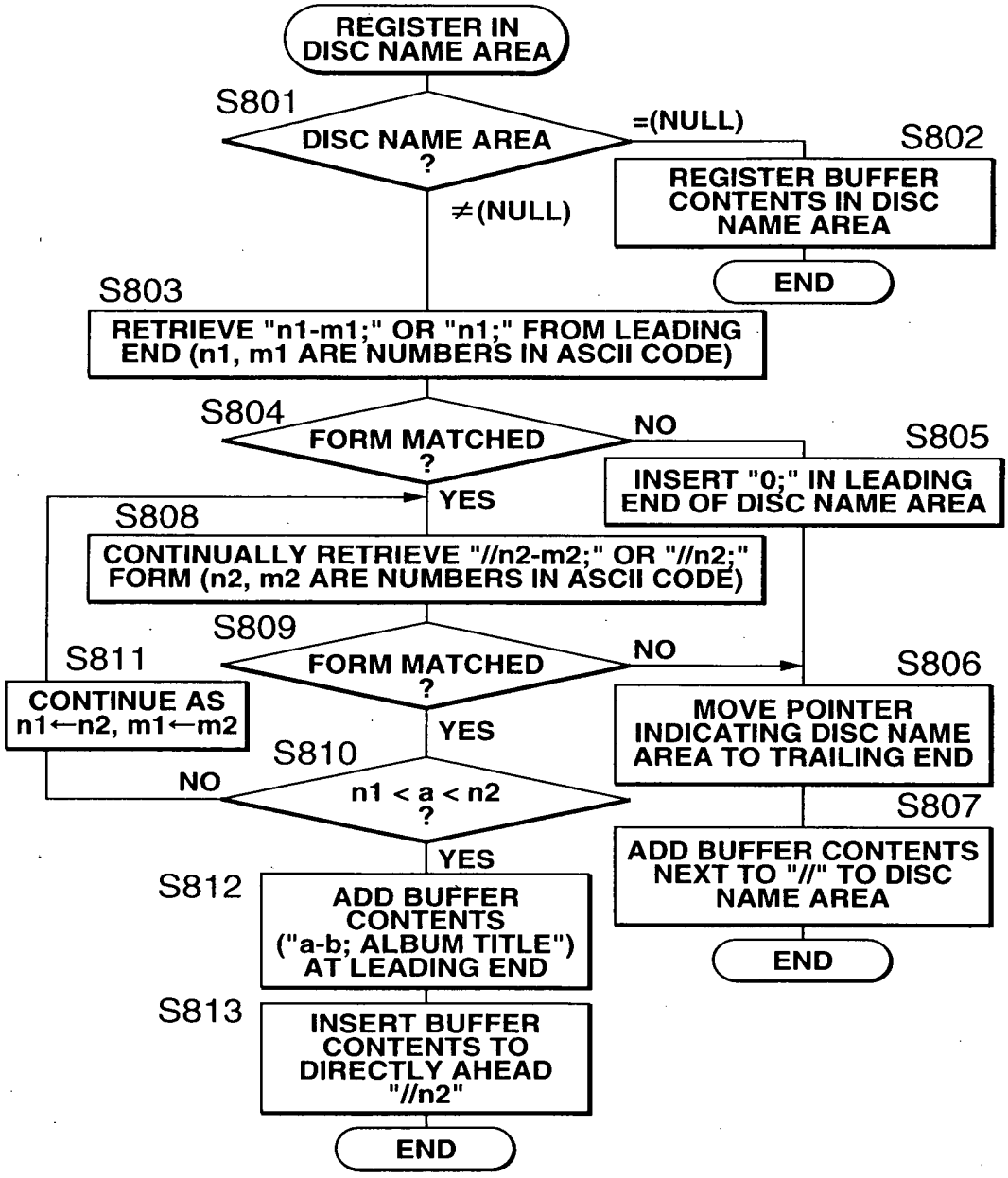

REGISTER IN DISC NAME AREA
S801
DISC NAME AREA ?
=(NULL)
S802
REGISTER BUFFER CONTENTS IN DISC NAME AREA
END
≠(NULL)
S803
RETRIEVE "n1-m1;" OR "n1;" FROM LEADING END (n1, m1 ARE NUMBERS IN ASCII CODE)
S804
FORM MATCHED ?
NO
S805
INSERT "0;" IN LEADING END OF DISC NAME AREA
YES
S808
CONTINUALLY RETRIEVE "//n2-m2;" OR "//n2;" FORM (n2, m2 ARE NUMBERS IN ASCII CODE)
S809
FORM MATCHED ?
NO
S806
MOVE POINTER INDICATING DISC NAME AREA TO TRAILING END
S811
CONTINUE AS n1←n2, m1←m2
YES
S810
NO
n1 < a < n2 ?
S807
ADD BUFFER CONTENTS NEXT TO "//" TO DISC NAME AREA
YES
END
S812
ADD BUFFER CONTENTS ("a-b; ALBUM TITLE") AT LEADING END
S813
INSERT BUFFER CONTENTS TO DIRECTLY AHEAD "//n2"
END

FIG.9

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .
76	8	—	1	0
77	;	G	A	00
78	00	00	00	00
79	00	00	00	00
80	00	00	00	00
81	00	00	00	00
. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .

FIG.10

FIG.11A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .
76	M	i	n	i
77	D	i	s	01
78	c	00	00	00
79	00	00	00	00
80	00	00	00	00
81	00	00	00	00
. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.11B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .
76	0	;	M	i
77	n	i	D	01
78	i	s	c	/
79	/	1	—	02
80	7	;	S	O
81	N	Y	00	00
. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .

Byte position of the next slot
=76 × 4+(Link-P) × 8

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	00
81	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.12

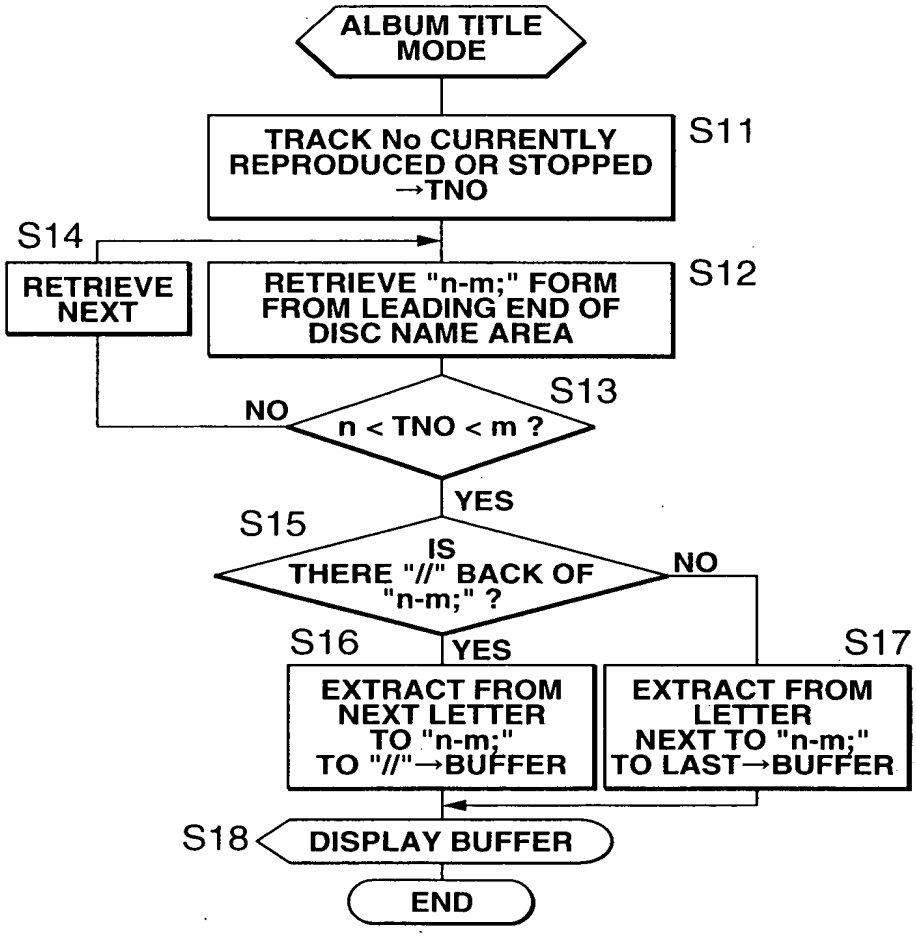


FIG.13

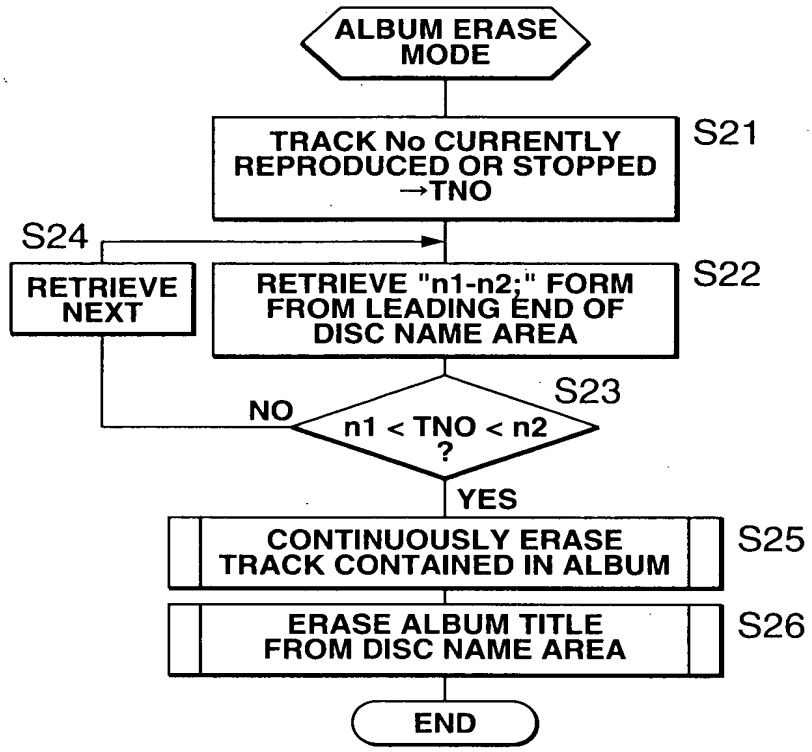

ALBUM ERASE MODE
TRACK No CURRENTLY REPRODUCED OR STOPPED →TNO
S21
S24
RETRIEVE NEXT
RETRIEVE "n1-n2;" FORM FROM LEADING END OF DISC NAME AREA
S22
NO
n1 < TNO < n2 ?
S23
YES
CONTINUOUSLY ERASE TRACK CONTAINED IN ALBUM
S25
ERASE ALBUM TITLE FROM DISC NAME AREA
S26
END

FIG.14

FIG.15A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	/
81	/	1	1	03
82	—	2	0	;
83	M	i	n	04
84	i	D	i	s
85	c	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.15B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	7	02
80	;	M	i	n
81	i	D	i	03
82	s	c	00	00
83	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

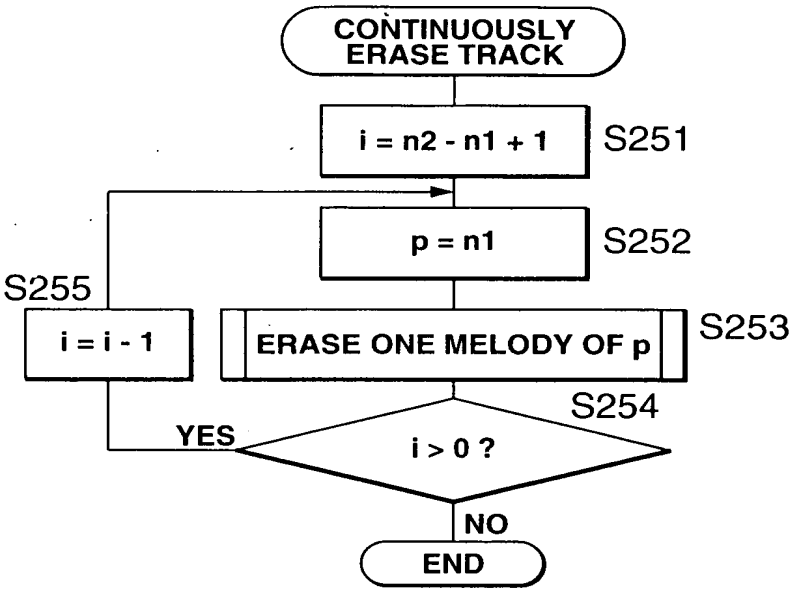

CONTINUOUSLY ERASE TRACK
i = n2 - n1 + 1
S251
p = n1
S252
S255
i = i - 1
ERASE ONE MELODY OF p
S253
S254
YES
i > 0 ?
NO
END

FIG.16

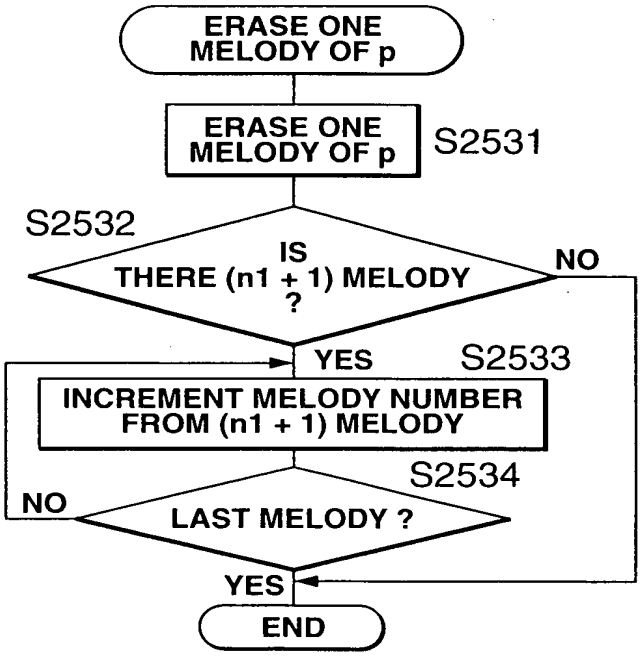

ERASE ONE MELODY OF p
ERASE ONE MELODY OF p
S2531
S2532
IS THERE (n1 + 1) MELODY ?
NO
YES
S2533
INCREMENT MELODY NUMBER FROM (n1 + 1) MELODY
S2534
NO
LAST MELODY ?
YES
END

FIG.17

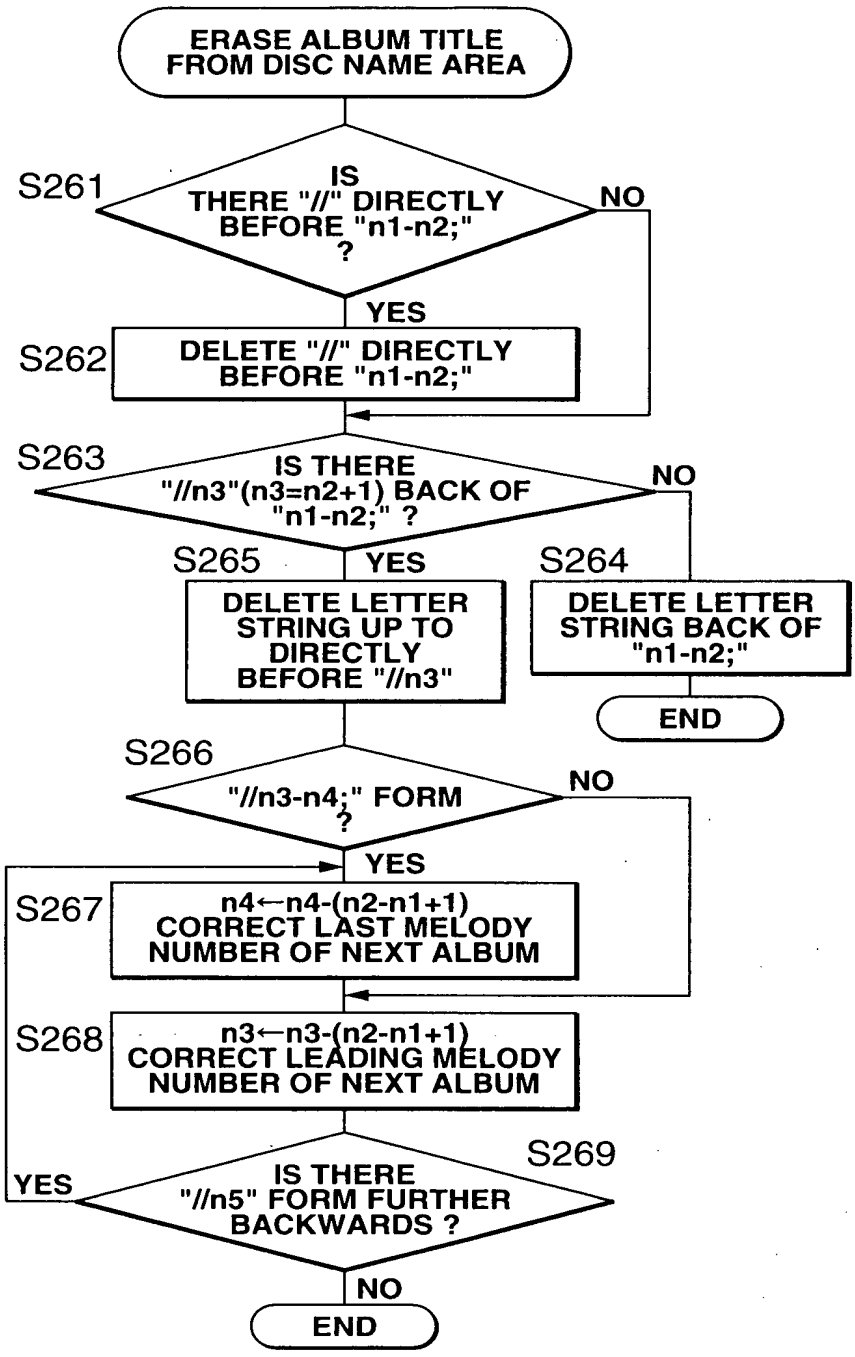

ERASE ALBUM TITLE FROM DISC NAME AREA
S261
IS THERE "//" DIRECTLY BEFORE "n1-n2;" ?
NO
YES
S262
DELETE "//" DIRECTLY BEFORE "n1-n2;"
S263
IS THERE "//n3"(n3=n2+1) BACK OF "n1-n2;" ?
NO
YES
S265
DELETE LETTER STRING UP TO DIRECTLY BEFORE "//n3"
S264
DELETE LETTER STRING BACK OF "n1-n2;"
END
S266
"//n3-n4;" FORM ?
NO
YES
S267
n4←n4-(n2-n1+1) CORRECT LAST MELODY NUMBER OF NEXT ALBUM
S268
n3←n3-(n2-n1+1) CORRECT LEADING MELODY NUMBER OF NEXT ALBUM
S269
IS THERE "//n5" FORM FURTHER BACKWARDS ?
YES
NO
END

FIG.18

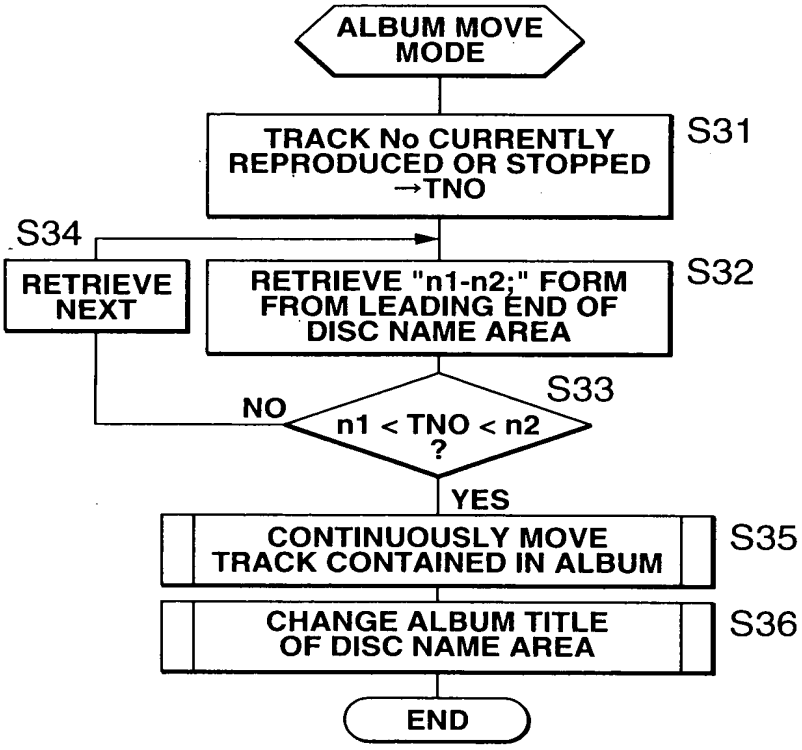


FIG.19

FIG.20A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	/
81	/	1	1	03
82	—	2	0	;
83	M	i	n	04
84	i	D	i	s
85	c	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.20B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	7	02
80	;	M	i	n
81	i	D	i	03
82	s	c	/	/
83	1	8	—	04
84	2	0	;	G
85	A	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

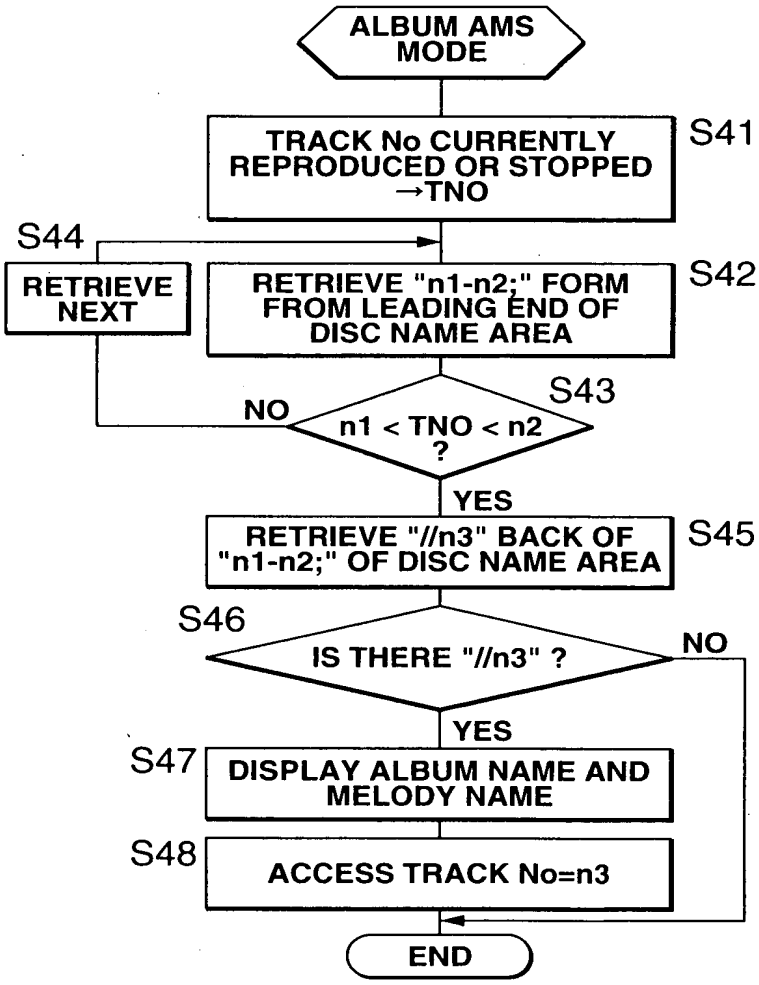


FIG.21

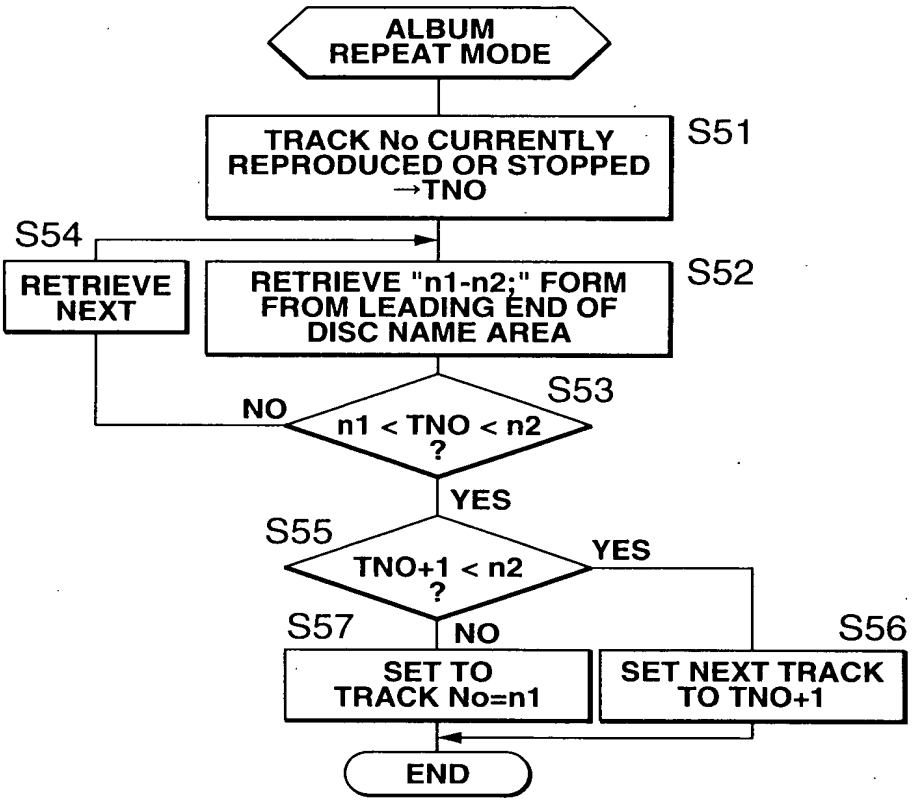


FIG.22

FIG.23A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	/
81	/	1	1	03
82	—	2	0	;
83	M	i	n	04
84	i	D	i	s
85	c	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.23B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	1	0
77	;	S	O	01
78	N	Y	/	/
79	1	1	—	02
80	2	0	;	M
81	i	n	i	03
82	D	i	s	c
83	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.24A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	1	0
77	;	S	O	01
78	N	Y	/	/
79	1	1	—	02
80	2	0	;	M
81	i	n	i	03
82	D	i	s	c
83	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.24B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	5	;
77	S	O	N	01
78	Y	/	/	6
79	—	1	0	02
80	;	/	/	1
81	1	—	2	03
82	0	;	M	i
83	n	i	D	04
84	i	s	c	00
85	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.25A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	/
81	/	1	1	03
82	—	2	0	;
83	M	i	n	04
84	i	D	i	s
85	c	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.25B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	6	;
77	S	O	N	01
78	Y	/	/	7
79	—	9	;	02
80	G	A	/	/
81	1	0	—	03
82	1	9	;	M
83	i	n	i	04
84	D	i	s	c
85	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.26A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	/
81	/	1	1	03
82	—	2	0	;
83	M	i	n	04
84	i	D	i	s
85	c	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.26B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	6	;
77	S	O	N	01
78	Y	/	/	7
79	—	9	;	02
80	G	A	/	/
81	1	0	—	03
82	1	9	;	M
83	i	n	i	04
84	D	i	s	c
85	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.27A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	/
81	/	1	1	03
82	—	2	0	;
83	M	i	n	04
84	i	D	i	s
85	c	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.27B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	8	;
77	S	O	N	01
78	Y	/	/	9
79	—	1	1	02
80	;	G	A	/
81	/	1	2	03
82	—	2	1	;
83	M	i	n	04
84	i	D	i	s
85	c	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.28A

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	00
81	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.28B

12	00000000	P-TNA 1	P-TNA 2	P-TNA 3
13	P-TNA 4	P-TNA 5	P-TNA 6	P-TNA 7
14	P-TNA 8	P-TNA 9	P-TNA 10	P-TNA 11
....	....	....	....	....
....	....	....	....	....
76	1	—	7	;
77	S	O	N	01
78	Y	/	/	8
79	—	1	0	02
80	;	G	A	/
81	/	1	1	03
82	—	2	0	;
83	00	00	00	00
....	....	....	....	....
....	....	....	....	....

Byte position of the next slot
=76 × 4+(Link-P) × 8

FIG.29A

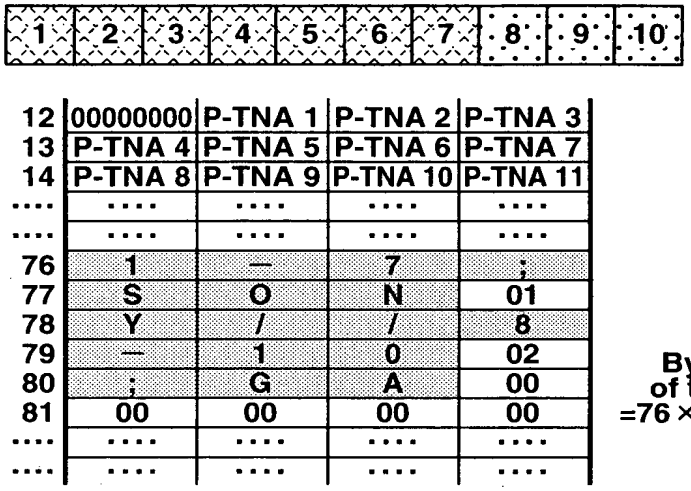


FIG.29B